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APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. 10/707,780 01/12/2004 Robert J. Wentworth **BIP 0109 PUS** 1779 27256 7590 08/27/2004 **EXAMINER** ARTZ & ARTZ, P.C. NGUYEN, DUNG V 28333 TELEGRAPH RD. ART UNIT PAPER NUMBER **SUITE 250** SOUTHFIELD, MI 48034 3723

DATE MAILED: 08/27/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

			1110
Office Action Summary	Application No.	Applicant(s)	
	10/707,780	WENTWORTH	I ET AL.
	Examiner	Art Unit	
	Dung V Nguyen	3723	
The MAILING DATE of this communic Period for Reply	ation appears on the cover	sheet with the correspondence	address
A SHORTENED STATUTORY PERIOD FO THE MAILING DATE OF THIS COMMUNIC - Extensions of time may be available under the provisions of after SIX (6) MONTHS from the mailing date of this commun - If the period for reply specified above is less than thirty (30) - If NO period for reply is specified above, the maximum statu - Failure to reply within the set or extended period for reply within the set or extended period f	ATION. 37 CFR 1.136(a). In no event, howe ilication. days, a reply within the statutory mini tory period will apply and will expire \$11, by statute, cause the application to	ver, may a reply be timely filed mum of thirty (30) days will be considered to BIX (6) MONTHS from the mailing date of the become ABANDONED (35 U.S.C. § 133).	nis communication.
Status			
1) Responsive to communication(s) filed 2a) This action is FINAL . 2b 3) Since this application is in condition for closed in accordance with the practice.)⊠ This action is non-fina or allowance except for for	mal matters, prosecution as to	the merits is
Disposition of Claims			
4) Claim(s) 1-47 is/are pending in the ap 4a) Of the above claim(s) is/are 5) Claim(s) is/are allowed. 6) Claim(s) 1-11,13-19,22-31 and 33-47 7) Claim(s) 12,20,21 and 32 is/are object 8) Claim(s) are subject to restriction Application Papers 9) The specification is objected to by the 10) The drawing(s) filed on is/are: a Applicant may not request that any objection Replacement drawing sheet(s) including the	withdrawn from consideratis/are rejected. ted to. on and/or election requirer Examiner. a) accepted or b) objection to the drawing(s) be held the correction is required if the	nent. ected to by the Examiner. in abeyance. See 37 CFR 1.85(a) e drawing(s) is objected to. See 37	7 CFR 1.121(d).
11) The oath or declaration is objected to be	by the Examiner. Note the	attached Office Action or form	P10-152.
Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for a) All b) Some * c) None of: 1. Certified copies of the priority do 2. Certified copies of the priority do 3. Copies of the certified copies of application from the International * See the attached detailed Office action	ocuments have been recein ocuments have been receing the priority documents hand al Bureau (PCT Rule 17.2)	ved. ved in Application No ve been received in this Nation a)).	nal Stage
Attachment(s) I) Notice of References Cited (PTO-892) Photice of Draftsperson's Patent Drawing Review (PTO) Information Disclosure Statement(s) (PTO-1449 or Proper No(s)/Mail Date 6/12/04.	D-948) TO/SB/08) 5) 🔲 (Interview Summary (PTO-413) Paper No(s)/Mail Date Notice of Informal Patent Application (Other:	(PTO-152)

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1, 6-10, 13 and 14 are rejected under 35 U.S.C. 102(b) as being anticipated by Block (USPN 4,872,292). Block discloses a rotary finishing device comprising a general circular hub 126 having an inner periphery defining a through hole and an outer periphery, a plurality of slots 124 formed about the outer periphery of the general circular hub 126, each of the plurality of slots 124 being defined by a pair of side portions extending from the outer periphery, the plurality of slots 124 being generally uniformly spaced around the generally circular hub 126, at least on of the plurality of slots 124 having at least one finishing sheet 12 secured therein by an adhesive 118. wherein the pair of side portions extends generally inward from the outer periphery, wherein the generally circular hub includes a center line defining a reference axis that extends from the centerline to a point between the side portions and wherein the pair of side portions extends from the outer periphery in a direction generally parallel to the reference axis, wherein the pair of side portions from the outer periphery such that each of the plurality of slots 124 is generally rounded, wherein the adhesive 118 secures the finishing sheet 12 within the slot 124 by adhering it to each of the pair of side portions,

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wherein each of the plurality of slots 124 includes at least one sheet of sandpaper 12 secured therein by an adhesive 118 (note Fig. 10, col. 6, lines 11-54).

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 11, 15-18, 31, 37, 41, 43, 44, 46 and 47 are rejected under 35 U.S.C. 103(a) as being unpatentable over Block (USPN 4,872,292) in view of Wray et al (USPN 4,258,509). Block discloses the claimed invention as described above, however, Block does not disclose an end cap in communication with the general cylindrical hub such that a portion of the end cap is in communication with the general circular hub to effectuate driving thereof. Wray et al discloses an end cap 26 in communication with the generally cylindrical hub such that a portion of the end cap 26 is in communication with the generally circular hub to effectuate driving thereof (note Fig. 1 and 3, col. 3, lines 44-61). It would have been obvious to one having ordinary skill in the art at the time the invention was made of use the end cap disclosed by Wray et al with the rotary finishing device of Block in order to secure the finishing device for withstanding the high centrifugal forces during operation.
- 5. Claims 2-4, 22-24, 26-28 and 38-40 are rejected under 35 U.S.C. 103(a) as being unpatentable over Block (USPN 4,872,292). Block discloses the claimed invention as described above, however, Block does not discloses the generally circular

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hub formed of a metal material, constructed of aluminum or formed by extrusion process. It would have been obvious to one having ordinary skill in the art at the time the invention was made to form the hub of a metal material, constructed of aluminum or formed by extrusion process, since it has been held to be within the general skill of a worker in the art to select a known material on the basis of its suitability for the intended use as a matter of obvious design choice. *In re Leshin*, 125 USPQ 416.

6. Claims 5, 19, 25, 29, 30, 33-36, 42 and 45 are rejected under 35 U.S.C. 103(a) as being unpatentable over Block (USPN 4,872,292). Block discloses the claimed invention as described above, however, Block does not discloses expressly that a plurality of slots being defined by a pair of side portions that extend generally outward from an outer periphery from the outer periphery of the generally circular hub in a direction not parallel to a reference line extending from the center line to a point between the pair of side portion. At the time the invention was made, it would have been an obvious matter of design choice to a person of ordinary skill in the art to form a plurality of slots by a pair of side portions that extend outward from the outer periphery of the generally circular hub in a direction not parallel to a reference line extending from the center line to a point between the pair of side portions, because Applicant has not disclosed that a pair of side portions that extend from the outer periphery of the generally circular hub in a direction not parallel to a reference line extending from the center line to a point between the pair of side portions provides an advantage, is used for a particular purpose, or solves a stated problem. One of ordinary skill in the art, furthermore, would have expected Applicant's invention to perform equally well with

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either a pair of side portions extend from the outer periphery of the generally circular hub in a direction parallel or not parallel to a reference line extending from the center line to a point between the pair of side portions because the plurality of slots perform the same function of securing the finishing media to the generally circular hub. Therefore, it would have been an obvious matter of design choice to modify Block to obtain the invention as specified in the claim.

Allowable Subject Matter

7. Claims 12, 20, 21, 32 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

- 8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Saegusa et al, Hasegawa, Belanger, Emerson, Brinkmann Hoffheimer and Lundum are cited to show rotary finishing devices.
- 9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dung V Nguyen whose telephone number is 703-305-0036. The examiner can normally be reached on M-F, 6:30-3:00.
- 10. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph J Hail can be reached on 703-308-2687. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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11. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

DVN August 24, 2004

> DUNG VAN NGUYEN PRIMARY EXAMINER